Work Order ID 56720 March 5, 2010 9:59:52 AM							· <u></u>				<u> </u>		Page
Item ID: I Revision ID:	D412-742-01	1		Accept						Setup S	tart		
Start Date: 0 Required Date: 1	Float Skidtube 05/03/2010 17/03/2010	Installation Start Qty: 1.00 Req'd Qty: 1.00	188 188 188 188 188 188 188			Cust Item I Customer:	ID:			S	top		
	Process Plan	n:	Date: 10-3-5	Tooling: SPC (Y/N):			ate:				tart top		
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours		Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty		eject umber	Insp. Stamp
Draw Nbr	Revis	sion Nbr						<u> </u>		~~			Stump
IIN-D412-742	D												
DC		DOCUMENT CONTROL		0.00								·	
Document Control		Memo Photocopy bl	uefile and create labels per		CHG006	J pda	m)12						
110 		Pick Kit		0.00					,		1 [\	12/1	(1)
Packaging Packaging ,		Memo		0.00					C	_/_	_/9	فالدا	

0.00

120 QC

Quality Control

QC4- 100% Inspect kits for completeness

Memo

W/O:			V	VORK ORDER CHANC	GES				£ , z
DATE	STEP	PRO	CEDURE CH	IANGE	В	Ву	Date Qt	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Ca	tegory:	_ NCR:	Yes N	lo DQA:		
Resolution: Disposition: QA: N/C Closed: Date:				Date: _					
NCR:		V	VORK OR	DER NON-CONFORM	ANCE (I	NCR)			
DATE	STEP	Description of NC Section A	Initial	Corrective Action Sec Action Description	tion B	ign &	Verificatio		Approval
		Section A	Chief Eng	Chief Eng		Date	Section C	Chief Eng	QC Inspector
				·			:		
	 								
									-

Work Order ID 56720

Page 2

March 5, 2010 9:59:52 AM

Required Date: 17/03/2010

Item ID:

D412-742-011

Accept



Setup Start

Stop



Revision ID:

Item Name:

Float Skidtube Installation

Start Date:

05/03/2010

QC: ____

Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Draw

Number

Reference:

Approvals:

Process Plan:

Operation

Description

Packaging

Date: Date: **Tooling:**

SPC (Y/N):

Set Up/

Run Hours

Date:

Date:_

Start Run

Stop



Sequence ID/ **Work Center ID**

130

Packaging Packaging

Memo

0.00

Identify and pack for shipping as per PPPD412-742-011 Location:

0.00

Draw Plan Rev. Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

140

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

	•									
W/O:										
DATE	STEP	PRO	OCEDURE CHA	NGE	E	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No: PAR #: Fault Category: NCR: Yes No DQA: Date: Resolution: Disposition: QA: N/C Closed: Date:				Date:						
	R	esolution:								
NCR:			WORK ORD	ER NON-CONFORMA	ANCE (NCR)				
DATE	STEP	Description of NC	Corrective Action Section B Verification			Approval	Approval			
	J	Section A	Initial Chief Eng	Action Description Chief Eng			Secti	on C	Chief Eng	QC Inspector
		PAR #: Fault Category: NCR: Yes No DQA: Date: Disposition: QA: N/C Closed: Date: WORK ORDER NON-CONFORMANCE (NCR) Description of NC Section A Section C Chief Eng Prod Mgr Verification Approve Chief Eng Prod Mgr								
								· -		
		`								
										-

March 5, 2010 9:59:49 AM

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Work Order ID: 56720

Parent Item:

D412-742-011

Parent Item Name:

Float Skidtube Installation

Comments:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:B 06-06-08 IPP Rev:C

As per DSI9336 JLM 07-05-28 As per Rev C

IPP rev D 07.11.01 ecn 1053P

JLM EC

Start Date: 05/03/2010

Start Qty: 1.00

Required Date: 17/03/2010

Required Qty: 1.00

MS21043-3

Purchased

No

100

Each

4,196.000_33.0000

Nut	

Warehouse	Loc	Qty	Loc Code	
Location				
OFFSHORE				
FG		80		
103691		80		
Main Warehouse				
ST	. •	4116		
111819		70		
112243		29		
112314		4017		M112314
	110	Each	84.0000 3.0000	-1)

AV3C37A

Purchased

No

Loc Qty Loc Code

Location

Warehouse

Main Warehouse

ST

112454

84 84

/c/3/10 (1)

W/O:			WO	RK ORDER CHANGE	S	•			1 ¢
DATE	STEP	PRO	OCEDURE CHAN	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No: PAR #: PAR									
Resolution:			Disposition	:	QA: N/C CI	osed:	*	Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCF	R)			
DATE	0750	Description of NC	<u> </u>	Corrective Action Section		Verific	ation	Approval	al Approval
DATE	SIEP	STEP Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		Verification Section C Chief		
	+								

March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item:

D412-742-011

Parent Item Name:

Float Skidtube Installation

Comments:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:B 06-06-08 As per DSI9336 JLM IPP Rev:C

07-05-28 As per Rev C JLM

IPP rev D

07.11.01 ecn 1053P

EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

Purchased

No

110

84.0000

Each



BOLT

<u>Warehouse</u>	<u>Lo</u>	Loc Qty		
Location				
Main Warehouse				
ST		84		
106176		34		
112454		50		
	110	Each	138.0000	

M106/76

AN3C41A **BOLT**

Purchased

No

138.0000 3.0000

L- 143/10 0

Warehouse	Loc Oty	Loc Code	
<u>Location</u>			
OFFSHORE			
FG	4		
103324	4		
Main Warehouse			
ST	134		
112431	34		M112431
112829	100		

W/O:			WO	RK ORDER CHANG	GES				1 1						
DATE	STEP	PRO	OCEDURE CHAI	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
Part No	Part No: PAR #: Fault Category: Resolution: Disposition:								ite:						
NCR:	nesi			R NON-CONFORM				Date:							
NCN.				· · · · · · · · · · · · · · · · · · ·	tion B	···/									
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sigr Dat	& Sec	ication tion C	Approval Chief Eng	Approval QC Inspector						
							W. J. W. L.								
						~									
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Work Order ID: 56720

D412-742-011

Parent Item Name:

Float Skidtube Installation

Comments:

Parent Item:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:B 06-06-08 IPP Rev:C 07-05-28

As per DSI9336 JLM As per Rev C JLM

IPP rev D

07.11.01 ecn 1053P

EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

AN3C42A

Purchased

Purchased

Purchased

No

No

No

110

Each

132.0000 [3.0000]

Loc Code

45.0000

Loc Code

BOLT

<u>Warehouse</u>	Loc Qty				
Location					
Main Warehouse					
ST	132				
106169	32				
106176	100				
	110 Each	ı			

M106169

3.0000-

BOLT

Warehouse	Loc Qty					
Location						
Main Warehouse						
ST		45				
106227		2				
106228		35				
107457		8				
	110	Each				

173.0000 9.0000

M107457

Loc Code

Warehouse Loc Qty Location Main Warehouse ST 173

106187 73 110848 100

/ 143/10 ()

W/O:			WC	ORK ORDER CHANG	SES					3	
DATE	STEP	PRO	OCEDURE CHA	NGE	By Date Qty				Approval Chief Eng / Prod Mgr	Approval QC Inspector	
										!	
Part No		PAR #:	Fault Cate	gory:	NCR:	Yes N	lo DQ	<u> </u> A:	Date:		
Resolution: Disposition:											
NCR:		1	WORK ORDI	ER NON-CONFORM	ANCE (I	NCR))		-		
DATE	STEP	Description of NC	Description of NC Corrective Action			Section B Verifica			Approval	Approval	
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		ign & Date	gn & Section C		Chief Eng	QC Inspector	
·							 				

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Work Order ID: 56720

D412-742-011

Parent Item: Parent Item Name:

Float Skidtube Installation

Comments:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:B IPP Rev:C 07-05-28

06-06-08 As per DSI9336 JLM As per Rev C JLM

IPP rev D

07.11.01 ecn 1053P

EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

Bolt

Purchased

Purchased

No

No

110

Each

100

111.0000 10.0000

Loc Code

Loc Code

	[AN4C47A]
٠ ح	AN4C47A

Warehouse Loc Qty Location Main Warehouse ST 111 106171 62 110847 49 110 Each

110.0000 4.0000

/c/3/10 (1)

Warehouse	Loc Qty
Location	
Main Warehouse	
ST	110
112489	2
112816	3
113164	5
113302	100

11/3302

106171

W/O:			WC	ORK ORDER CHANGI	ES				, ,
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		· <u></u>				···············			
Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A :	_ Date: _	
			lution: Disposition:						
NCR:		,	WORK ORDI	ER NON-CONFORMA	NCE (NCR)			
DATE	STEP	Description of NC		Corrective Action Section B		Verific	ation	Approval	Approval
	Section A	Initial Chief Eng	Action Description Chief Eng	Date	Section C		Sign & Section C	Chief Eng	QC Inspector

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Work Order ID: 56720

D412-742-011

Parent Item Name:

Float Skidtube Installation

Comments:

Parent Item:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

06-06-08 As per DSI9336 JLM As per Rev C JLM

IPP Rev:C IPP rev D

07-05-28 07.11.01

ecn 1053P

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

AN4C52A

Purchased

No

EC

110

Each

184.0000 8.0000 -

BOLT

Warehouse	<u>L</u> c	oc Oty
Location		
Main Warehouse		
ST		184
103914		19
112543		15
112641		50
113121		100
	110	Fach

Purchased

No

611.0000 16.0000

Loc Code

Loc Code

Warehouse	Loc Qty
Location	
OFFSHORE	
FG	4
103344	4
Main Warehouse	
ST	607
111295	0
112759	25
112794	82
113121	500

	•									
W/O:			W	ORK ORDER CHANG	GES					* .
DATE STEP		PRO	DCEDURE CHA	NGE		Зу	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								;		
			2 74							
									•	
Part No	:	PAR #:	Fault Cate	gory:	NCR:	Yes N	lo DQ /	A:	Date:	
		esolution:								
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NCR)				
DATE	STEP	Description of NC	Description of NC Corrective Actio		Section B			Verification Appr		Approval
	SILF	Section A	Initial Chief Eng			Sign & Date	Section C		Chief Eng	QC Inspector
	<u> </u>									

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Work Order ID: 56720

Parent Item:

D412-742-011

Parent Item Name:

Float Skidtube Installation

Comments:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:B 06-06-08 As per DSI9336 JLM IPP Rev:C 07-05-28

As per Rev C

JLM

IPP rev D

07.11.01

ecn 1053P

Purchased

EC

Purchased

No

No

110

Each

Loc Qty

431.0000 4.0000 ___

Loc Code

Start Date: 05/03/2010

Start Qty: 1.00

Required Date: 17/03/2010

Required Qty: 1.00

Bolt

AN4C7A

Warehouse Location

Main Warehouse

ST

431

109147

431 Each

99.0000

8.0000

BOLT

Warehouse Loc Oty Loc Code Location

110

Main Warehouse ST

104289

99 110396 98

M/0396

	· · · · · · · · · · · · · · · · · · ·									
W/O:			WO	RK ORDER CHANG	ES					, ·,
DATE STEP		PRO	OCEDURE CHAN	IGE	E	Зу	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		u.								
Part No		PAR #:	Fault Categ	ory:	_ NCR:	Yes N	lo DQ	A:	Date:	
	Reso	lesolution: Disposition:				/C Clo	sed:		Date:	
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NCR)				
DATE	STEP	Description of NC	Corrective Action Section B			Verif		cation Approval	Approval	Approval
	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Section C			Chief Eng	QC Inspector	
				•						
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							<u> </u>			
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										[

March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item Name:

Parent Item:

D412-742-011

Comments:

Float Skidtube Installation

IPP Rev:B

IPP Rev: A□05.10.13□New Issue□KJ/JLM□ 06-06-08 As per DSI9336 JLM

07-05-28 IPP Rev:C

As per Rev C JLM

IPP rev D

07.11.01 ecn 1053P

EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

N960C10L

Purchased

Purchased

No

No

110

Each

388.0000 / 66.0000

Loc Code

M1/369/

washer

Warehouse	Loc Qty				
Location					
OFFSHORE					
FG	100				
103585	100				
Main Warehouse					
ST	288				
112116	128				
112612	160				
	110 Each				

1,314.000 32.0000

le 143/10 ()

WASHER

Warehouse	Loc Qty	Loc Code	
Location			
OFFSHORE			
FG	44		
104925	44		
Main Warehouse			
ST	1270		
111916	2		
112612	368		M1/26/2
112794	500		
112828	400		

	Topaco -	•••							
W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
=			· · · · · · · · · · · · · · · · · · ·						
Part No: PAR #:		PAR #:	Fault Categ	jory:	_ NCR: Yes	No DQ	A:	_ Date: _	
Resolution:			Disposition	:	_ QA: N/C CI	osed:		Date:	
NCR:		,	WORK ORDE	R NON-CONFORMA	ANCE (NCR	1)			
DATE	STEP	Description of NC		Corrective Action Secti		Verific	cation	Approval	Approval
	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti		Chief Eng	QC Inspector	
				- W-104800-W-10-1-W-					

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Work Order ID: 56720

Parent Item:

D412-742-011

Parent Item Name:

Float Skidtube Installation

Comments:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:B IPP Rev:C 07-05-28

06-06-08 As per DSI9336 JLM As per Rev C JLM

IPP rev D

07.11.01

ecn 1053P

Start Date: 05/03/2010 Start Qty: 1.00

Required Date: 17/03/2010

Required Qty: 1.00

AN960C616L

Purchased

No

EC

110

Each



WASHER

Warehouse	<u>Loc</u>	<u>Otv</u>	Loc Code
Location			
Main Warehouse			
ST		250	
111424		50	
113064		200	
	110	Each	22.0000

Saddle, Fwd Out 205

Manufactured

No

1.0000 0000

/ka/3/10 ()

Warehouse Location	Loc Qty	Loc Code	
Main Warehouse			
ST	14		
11644	1		
43564	3		•
47564	7		
52910	3		
Main Warehouse			
ST433	8		
54929	8		54927

W/O:			WC	RK ORDER CHANG	ES				, ,
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR: Ye	s No [DQA:	Date:	
	Resolution:		Disposition:		_ QA: N/C Closed:			Date: _	
NCR:			WORK ORDE	ER NON-CONFORMA	NCE (NO	CR)			- Park to the subsection
DATE	CTED	Description of NC			on B	Ve	rification	Approval	Approval
DATE	STEP	STEP Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da	1& ∣ _S	Section C	Chief Eng	QC Inspector

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Work Order ID: 56720

Parent Item Name:

Parent Item:

D412-742-011

Comments:

Float Skidtube Installation

IPP Rev:B 06-06-08 As per DSI9336 JLM 07-05-28 As per Rev C JLM

IPP Rev:C IPP rev D

07.11.01

IPP Rev: A \$\infty\$ 105.10.13 \(\text{TNew Issue} \) KJ/JLM[]

ecn 1053P

Manufactured

EC

No

Start Date: 05/03/2010 Start Qty: 1.00

Required Date: 17/03/2010

Required Qty: 1.00

Manufactured No 110

Each

1.0000

Loc Code

Loc Oty

12

Location

Main Warehouse ST

Warehouse

43565

3 52908 9 110 Each

25.0000 1.0000

L 143/10 W

Saddle, Aft Out 205

Warehouse	Loc Qty	Loc Code	
Location			
Main Warehouse			
ST	11		
43566	3		
44206	1		
47566	7		
Main Warehouse			
ST434	14		
52328	6		
52911	8		529//

W/O:			WO	RK ORDER CHANG	SES						
DATE	STEP	STEP PROCEDURE CHANGE			В	/	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No							o DQA: Date:				
<u></u>	R	Resolution: Disposition: Q				QA: N/C Closed: Date:					
NCR:			WORK ORDE	R NON-CONFORM	ANCE (N	ICR)					
DATE	STEP	Description of NC	Corrective Action Section B			Veri		fication Approval		Approval	
		Section A	Initial Chief Eng	Action Description Chief Eng	51	gn & late	Section	on C	Chief Eng	QC Inspector	
i.											
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		1									

* March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item:

D412-742-011

Parent Item Name:

Float Skidtube Installation

Comments:

D2574

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:B 06-06-08 As per DSI9336 JLM IPP Rev:C 07-05-28 As per Rev C JLM

IPP rev D

07.11.01 ecn 1053P

EC

No

Manufactured

110

Each

17.0000 , 1.0000

Start Qty: 1.00

Start Date: 05/03/2010

Required Date: 17/03/2010

Required Qty: 1.00

Saddle, Aft In 205

<u>Warehouse</u>	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	2	
43567	2	****
Main Warehouse		
ST434	15	
53463	7	
56398	8	56378
	110 Each	229.0000 4.0000

Set Screw

Manufactured

No

(E/0/3/10 (B)

Loc Qty	Loc Code	
229		
4		
25		
200		51921
	229 4 25	229 4 25

W/O:		4	W	ORK ORDER CHANG	ES				, ,
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								<u> </u>	
				· · · · · · · · · · · · · · · · · · ·					
···				P-W-1					
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A :	Date: _	
	Res	solution:	· ,					Date: _	
NCR:		,	WORK ORD	ER NON-CONFORMA	NCE (NCR)			
DATE	STEP	Description of NC			Ciam 9			Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng		Section C		Chief Eng	QC Inspector
									:
/									

March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item:

D412-742-011

Parent Item Name:

Float Skidtube Installation

Comments:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:B 06-06-08 As per DSI9336 JLM

As per Rev C

IPP Rev:C 07-05-28 IPP rev D

07.11.01 ecn 1053P

JLM EC

Start Date: 05/03/2010

Required Date: 17/03/2010

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Start Qty: 1.00

Required Qty: 1.00



Manufactured No 110

Each

149.0000 72.0000

Loc Code

Warehouse	Lo	e Qty
Location		
Main Warehouse		
ST028		102
42364		102
Main Warehouse		
ST051		47
51540		47
	110	Each

Manufactured No 80.0000

Loc Code

2.0000

Pen 2/3/10 ()



Saddle Spacer

Warehouse	Loc Qty
Location	
Main Warehouse	
ST028	80
46518	1
47292	42
51541	37

W/O:			WO	RK ORDER CHANGE	S							
DATE STEP		PR	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No):	PAR #:	Fault Categ	ory:	NCR: Yes	No DQ	 А :	Date: _				
	Re	esolution:	Disposition	:	QA: N/C CI	osed:		Date: _				
NCR:			WORK ORDE	R NON-CONFORMAN	NCE (NCF	3)						
DATE	0750	Description of NC		Corrective Action Section	n B	Verific	cation	Approval	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date		Section C				Chief Eng	QC Inspector
						§						
			Į l			İ						

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Work Order ID: 56720

Parent Item:

D412-742-011

Parent Item Name:

Float Skidtube Installation

Comments:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:B IPP Rev:C 07-05-28

06-06-08 As per DSI9336 JLM As per Rev C JLM

IPP rev D

07.11.01

ecn 1053P

EC

Start Qty: 1.00

Start Date: 05/03/2010

Required Date: 17/03/2010

Required Qty: 1.00

Bushing

Manufactured No 110

Each

45.0000

16.0000

<u>Warehouse</u>	Loc Qty	Loc Code	
Location			
Main Warehouse			
ST	18		
54237	5		
56387	13		
Main Warehouse			
ST55	27		
56387	27	56381	

Bushing

Manufactured No

110

27 Each

24.0000 -8.0000

le 1/2/10 (1)

<u>Warehouse</u>	Loc Qty	Loc Code	
Location			
Main Warehouse			
ST	24		
52900	24		52900

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		Section A		Chief Eng		& Sec			
		Section A		Chief Eng		& Sec			
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		Section A		Chief Eng		& Sec			
		Section A		Chief Eng		& Sec			
		Section A		Chief Eng		& Sec			
		Section A		Chief Eng		& Sec			

March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item:

D412-742-011

Float Skidtube Installation Parent Item Name:

Comments:

IPP Rev: A∷05.10.13 New Issue KJ/JLM

IPP Rev:B 06-06-08 As per DSI9336 JLM

As per Rev C IPP Rev:C 07-05-28 JLM IPP rev D 07.11.01 ecn 1053P EC

B3405-041

Manufactured No

Manufactured

110 Each

Loc Qty

17

Loc Code

17.0000

Start Qty: 1.00

Start Date: 05/03/2010

Required Date: 17/03/2010

Required Qty: 1.00

Lug Assembly

No

Location Main Warehouse

Warehouse

ST

53887 17 110 Each

8.0000

1.0000

le 143/000

+D3405-043

Lug Assembly

Warehouse Location	Loc Oty	Loc Code	
Main Warehouse			
ST	8		
46589	1		
46863	1		
52324	1		
53888	5		53888

W/O:			WC	RK ORDER CHANG	ES					
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No:		PAR #:	Fault Cate	gory:	NCR: Yes No DQA: Date:					
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*March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item:

D412-742-011

Float Skidtube Installation Parent Item Name:

Comments:

IPP Rev: A∷05.10.13 ☐ New Issue ☐ KJ/JLM ☐

IPP Rev:B 06-06-08 As per DSI9336 JLM IPP Rev:C 07-05-28 As per Rev C JLM

IPP rev D

07.11.01

ecn 1053P

EC

D3407-041

Manufactured No 110

Each

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Start Date: 05/03/2010

Start Qty: 1.00

Required Date: 17/03/2010

Required Qty: 1.00

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Tow Ring	

<u>Warehouse</u>	Loc	<u>Oty</u>	<u>Loc Code</u>
Location			
OFFSHORE			
FG		3	
35780		3	
Main Warehouse			
ST		3	
48356		1	
50755		2	
Main Warehouse			
ST464		6	
55032		6	55032
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Washer

Manufactured No

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Loc Code

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28

53

Location Main Warehouse ST42176 44349 51648

53182

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March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item:

D412-742-011

Parent Item Name: Float Skidtube Installation

Comments:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:B 06-06-08 As per DSI9336 JLM JLM

IPP Rev:C 07-05-28 As per Rev C IPP rev D 07.11.01 ecn 1053P EC

193456-1

Manufactured No

Manufactured

Manufactured

No

No

110

Each

172.0000 1,0000]

Start Qty: 1.00

Start Date: 05/03/2010

Required Date: 17/03/2010

Required Qty: 1.00

Washer

Warehouse Loc Qty Location

Main Warehouse

ST 172 51653

54692 110 Each Loc Code

4 168

168.0000 2.0000

Set Screw

Warehouse

51602

Loc Qty

Loc Code

Location

Main Warehouse

ST

168

168

Each

110

39.0000

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/ 143/10 W

Phenolic Washer

Warehouse Location Loc Qty

Loc Code

Main Warehouse

ST

35524

39 39

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 59

Dart Aeros	pace Ltd
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W/O:		WORK ORDER CHANGES										
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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l												
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		Disposition:						Date:				
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DATE	STEP	Description of NC		Corrective Action Section			Verification		Approval	Approval		
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Warehouse Loc Qty Loc Code Location

3

3

Main Warehouse FG

35939

3 (539

Dart Aerospace Lt	id
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W/O:			WORK ORDER CHANGES .								
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Part No	:	PAR #:	Fault Categ		•	s No DQ	A:	Date:			
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Mårch 5, 2010 9:59:49 AM

Work Order ID: 56720

D412-742-011

Parent Item Name:

Float Skidtube Installation

Comments:

Parent Item:

IPP Rev: A□05.10.13□New Issue□KJ/JLM□

IPP Rev:C 07-05-28

IPP Rev:B 06-06-08 As per DSI9336 JLM As per Rev C JLM

IPP rev D

07.11.01

ecn 1053P

EC

Manufactured No

110

Each

0.0000

Start Qty: 1.00

Start Date: 05/03/2010

Required Qty: 1.00

Required Date: 17/03/2010

B37506A

Replacement Float Skidtube

MS21043-4

D412-742-041

Purchased

No

110

Each

374.0000 29.0000

Warehouse	Loc Qty	Loc Code	
Location			
OFFSHORE			
FG	40		**
104603	40		
Main Warehouse			
ST	334		
112314	100		
112492	11		
113064	223		M1/3064

W/O:		WORK ORDER CHANGES										
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Resolution:			Disposition: Q			QA: N/C Closed: Date:						
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Required Date: 17/03/2010

Item ID:

D412-742-011

Accept



Setup Start

Stop



Revision 1D:

Item Name:

Float Skidtube Installation

Start Date:

05/03/2010

Start Qty: 1.00

Reg'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Date://

Date:

Start Run



QC:

Date:

SPC (Y/N):

Date:

Plan

Stop

Sequence ID/ Work Center ID

Operation Description Set Up/ Run Hours Draw Number

Rev.

Accept Code Oty

Reject Qty

Reject Number Stamp

Draw Nbr

Revision Nbr

IIN-D412-742

D

DOCUMENT CONTROL

Memo

0.00

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-742-011 CHG006

H10-3-11

REFERENCE ONLY

100

Packaging

Pick Kit

0.00

Memo

0.00

Packaging

120

Memo

QC4-100% Inspect kits for completeness

0.00

Quality Control

0.00

Page 16 of 20

5.0 **PARTS LIST**

D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List 5.1

Item	Qty -011	Qty -041	Qty -015	Part Number	Description
	_X			D412-742-011	FLOAT SKIDTUBE INSTALLATION
	(1	Χ		D412-742-041	FLOAT SKIDTUBE
	1/1		X	D412-742-015	ELECTRIC STEP KIT
		1		D3391-041	412 FLOAT SKIDTUBE
1		*24		*AN3C4A	*BOLT
3		*12		*AN3C6A	*BOLT
4		*8		*AN3C7A	*BOLT
.5	-	*44		*AN960C10L	*WASHER
' 6 ~	•	*4	¥	*MS27039C4-12	*SCREW
7A		*4		*D3672-3	*WASHER (REPLACES NAS1515H4L)
7B		*4		*AN960C416L	*WASHER
21A		*1		*D3564-1	*WEARSHOE (REPLACES D3460-1)
21B		*1		*D3566-1	*GASKET
22A		*1	1.	*D3564-3	*WEARSHOE (REPLACES D3460-3)
22B		*1	1, 1	*D3566-1	*GASKET
23A		*1		*D3564-5	*WEARSHOE (REPLACES D2577-5)
23B		*1		*D3566-5	*GASKET
10		*1		*D3391-011	*412 FORWARD TUBE
11		**1	, , , , , ,	**D3401-041	**TOW CAP
· 12A		**10		**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB166)
12B		**2		**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB166)
13		**10		**AN3C4A	**BOLT
14A		**4		**D3672-1	**WASHER (REPLACES NAS1515H3L)
14B		**10		**AN960C10L	**WASHER
24A -		**1		**D3564-13	**WEARSHOE
24B		**1	r	**D3566-13	**GASKET
•					
-20,		*1		*D3391-013	*412 MID TUBE
28		**24		**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB116)
			, , , t		
30		*1	1	*D3391-015	*412 AFT TUBE
25A		**1		**D3537-1	**WEARPAD
25B		**1		**D3553-1	**GASKET
26A	<u> </u>	**1		**D3537-7	**WEARPAD
26B		**1		**D3553-3	**GASKET
31		**1		**D2646	**AFT CAP
,32		**14		**AELS-1032-130	**INSERT
.36	T	**12		**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB366)
37A		**6		**AN3C4A	**BOLT
37B		**4		**AN3C5A	**BOLT
38A		**2		**D3672-1	**WASHER (REPLACES NAS1515H3L)
38B	-	**10		**AN960C10L	**WASHER
39.		**4		**ALS4-428-165	**INSERT (REPLACES NAS1330S4KB151)

(CONTINUED ON PAGE 17)

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Revision: D

Date: 07.10.04

W/O:			WO	RK ORDER CHANG	ES						
DATE	STEP	PR	OCEDURE CHAI	IGE	E	Зу	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No):	PAR #:	Fault Categ	jory:	NCR: Yes No DQA: D					Date:	
	R	esolution:	Disposition: Q			QA: N/C Closed: Date:					
NCR:			WORK ORDE	R NON-CONFORMA	ANCE (NCR)	l				
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DATE	SIEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date		on C	Chief Eng	QC Inspector	

(CONTINUED FROM PAGE 16)

ː Item	Qty	Qty	Qty	Part Number	Description
	-011	-041	-015		····
40	/ 1			D2571,	SADDLE, FWD OUTSIDE
41 /	1			D2572 •	SADDLE, FWD INSIDE
42 -	11111			D2573 V	SADDLE, AFT OUTSIDE
43 4	1		The Arthur	. ₽ 2574 ″	SADDLE, AFT INSIDE
44	2	AL WARRY SERVICES	Control of the second	D2876	SADDLE SPACER
'45	2	Name of the owner of the last	£ 58.95 (18.4-14)	D2877	SADDLE SPACER
46	16	-		ED3403-1 /	BUSHING
47A	1_4		· ·	D2747	SET SCREW
47B	[2			©3533 ** **	SET SCREW
48	16			AN4C6A/	BOLT
49	<u>8</u>	العديب		AN4C52AV	BOLT
50	(-8			AN6C12A	BOLT
51A	, 32			D3672-3	WASHER (REPLACES NAS1515H4L)
51B	·=32			AN960C416L	WASHER
52A	, 8			D3672-9	WASHER (REPLACES NAS1515H6L)
52B	(8			EAN960C616L	WASHER
53	16		Mary Art (Char	D3672-11	WASHER (REPLACES NAS1515H7L)
54 1	24	حجمي		MS21043-4 *	NUT
55	4.			ÀN4C7A	BOLT
60	ί 8	#74.70		LD3403-3	BUSHING
61	(1)	THE PERSON NAMED IN	The state of the s	D3405-041	GHW LUG
62	7	 		D3405-043 , #	GHW LUG
63	4_		 	AN4C46A	BOLT
64	1 4		1	MS21043-4 🕊	NUT
			ļ <u>-</u>	55.05	TOMBUIG
70		A 22/12	Time	D3407-041 /	TOWRING
71	2	NE2/32E	Tito ou	D3417-3	WASHER
71 72 <i>(</i>	2	XX 27/3 3 8		D3417-3 / MS21043-4-/	WASHER NUT
71	2		To state a consequence of the	D3417-3	WASHER
71 72 <i>(</i>	2		1	D3417-3 / MS21043-4-/	WASHER NUT
71 72 <u>/</u> 73	2	***4	The space of the state of the s	D3417-3. / MS21043-4*/ D3456-1	WASHER NUT WASHER
71 72 <u>/</u> 73 80 81	2		The space of the state of the s	D3417-3. / MS21043-4-/ D3456-1 D2913	WASHER NUT WASHER DOUBLER
71 72 <u>/</u> 73 80	2	***4	The space of the state of the s	D3417-3. / MS21043-4v D3456-1 D2913 ***ALS4-428-165	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT
71 72 / 73 80 81 82	2	***4	1	D3417-3 MS21043-4* D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116)
71 72 / 73 80 81 82 83	2	***4	1 2	D3417-3 MS21043-4* D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130 MS21043-4	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT
71 72 7 73 80 81 82 83 84	2	***4	1 2 2 2	D3417-3 MS21043-44 D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130 MS21043-4 MS24693-C272	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW
71 72 7 73 80 81 82 83 84 85	2	***4	1 2 2 2	D3417-3 MS21043-44 D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130 MS21043-4 MS24693-C272 MS35489-35	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW GROMMET GROMMET ***SCREW
71 72 73 80 81 82 83 84 85 86	2	***4	1 2 2 2	D3417-3 MS21043-44 D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130 'MS21043-4 MS24693-C272 MS35489-35 MS35489-93	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW GROMMET GROMMET ***SCREW ****SCREW
71 72 / 73 80 81 82 83 84 85 86	2	***4 ***4 ***4 ***4	1 2 2 2	D3417-3 MS21043-4v D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130 MS21043-4 MS24693-C272 MS35489-35 MS35489-93 ***MS27039C1-09 ***MS27039C4-08 ***D3672-1	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW GROMMET GROMMET ***SCREW ***SCREW ***WASHER (REPLACES NAS1515H3L)
71 72 73 80 81 82 83 84 85 86 87	2	***4 ***4 ***4	1 2 2 1 1 1	D3417-3 MS21043-44 D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130 MS21043-4 MS24693-C272 MS35489-35 MS35489-93 ***MS27039C1-09 ***MS27039C4-08	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW GROMMET GROMMET ***SCREW ***SCREW ***WASHER (REPLACES NAS1515H3L) ***WASHER
71 72 73 80 81 82 83 84 85 86 87 88	_2	***4 ***4 ***4 ***4	1 2 2 1 1	D3417-3 MS21043-4v D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130 MS21043-4 MS24693-C272 MS35489-35 MS35489-93 ***MS27039C1-09 ;***MS27039C4-08 ***D3672-1 ***AN960C10L ***D3672-3	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW GROMMET GROMMET ***SCREW ***SCREW ***SCREW ***WASHER (REPLACES NAS1515H3L) ***WASHER ***WASHER (REPLACES NAS1515H4L)
71 72 73 80 81 82 83 84 85 86 87 88 89A	_2	***4 ***4 ***4 ***4 ***4 ***4	1 2 2 1 1	D3417-3 MS21043-4v D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130 MS21043-4 MS24693-C272 MS35489-35 MS35489-93 ***MS27039C1-09 ***MS27039C4-08 ***D3672-1 ***AN960C10L	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW GROMMET GROMMET ***SCREW ***SCREW ***WASHER (REPLACES NAS1515H3L) ***WASHER
71 72 7 73 80 81 82 83 84 85 86 87 88 89A 89B 90A	_2	***4 ***4 ***4 ***4 ***4 ***4	1 2 2 1 1	D3417-3 MS21043-4v D3456-1 ***ALS4-428-165 ***AELS-1032-130 MS21043-4 MS24693-C272 MS35489-35 MS35489-93 ***MS27039C1-09 ***MS27039C4-08 ***D3672-1 ***AN960C10L ***D3672-3 ****AN960C416L	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW GROMMET GROMMET ***SCREW ****SCREW ****WASHER (REPLACES NAS1515H3L) ****WASHER ***WASHER (REPLACES NAS1515H4L) ****WASHER
71 72 73 80 81 82 83 84 85 86 87 88 89A 89B 90A		***4 ***4 ***4 ***4 ***4 ***4	1 2 2 1 1	D3417-3 MS21043-4*/ D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130 MS21043-4 MS24693-C272 MS35489-35 MS35489-93 ***MS27039C1-09 ***MS27039C4-08 ***D3672-1 ***AN960C10L ***D3672-3 ***AN960C416L	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW GROMMET GROMMET ***SCREW ****SCREW ****WASHER (REPLACES NAS1515H3L) ****WASHER ***WASHER (REPLACES NAS1515H4L) ****WASHER
71 72 7 73 80 81 82 83 84 85 86 87 88 89A 89B 90A 90B	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***4 ***4 ***4 ***4 ***4 ***4	1 2 2 1 1	D3417-3 MS21043-4*/ D3456-1 D2913 ***ALS4-428-165 ***AELS-1032-130 MS21043-4 MS24693-C272 MS35489-35 MS35489-35 ***MS27039C1-09 ***MS27039C4-08 ***D3672-1 ***AN960C10L ***D3672-3 ***AN960C416L AN3C37A AN3C40A	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW GROMMET GROMMET ***SCREW ****SCREW ****WASHER (REPLACES NAS1515H3L) ****WASHER (REPLACES NAS1515H4L) ****WASHER BOLT BOLT
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71 72 73 80 81 82 83 84 85 86 87 88 89A 89B 90A 90B	3 2 4 3	***4 ***4 ***4 ***4 ***4 ***4	1 2 2 1 1	D3417-3 MS21043-4v D3456-1 ***ALS4-428-165 ***AELS-1032-130 MS21043-4 MS24693-C272 MS35489-35 MS35489-93 ***MS27039C1-09 ***MS27039C4-08 ***D3672-1 ***AN960C10L ***D3672-3 ***AN960C416L ***AN960C416L **AN3C37A *AN3C40A	WASHER NUT WASHER DOUBLER ***INSERT (REPLACES NAS1329S4KB140) ***INSERT (REPLACES NAS1330S3KB116) NUT SCREW GROMMET GROMMET ***SCREW ****SCREW ****WASHER (REPLACES NAS1515H3L) ****WASHER ***WASHER ****WASHER BOLT BOLT BOLT BOLT BOLT
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*DENOTES PART IS INCLUDED WITH D3391-041 ASSEMBLY ABOVE **DENOTES THAT PART IS INCLUDED ABOVE ASSEMBLY ***DENOTES THAT PART IS INCLUDED WITH D3391-013

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Revision: D

Date: 07.10.04

W/O:			WC	ORK ORDER CHANG	SES					
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
				1947-194-194-194-194-194-194-194-194-194-194						
Part No	•	PAR #:	Fault Category:			NCR: Yes No DQA: Date:				
	Re	esolution:	Disposition: Q			losed:		Date:		
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NC	R)				
DATE	STEP	Description of NC	Initial	tion B	0 1	erification Appr		Approval		
		Section A	Chief Eng	Action Description - Chief Eng	Date		ion C	Chief Eng	QC Inspector	
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DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. D AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 3.

HENCE ONLY

REF. FAA STC: SR01583SE REF. CANADIAN STC: SH05-37 REF. EASA STC: EASA.IM.R.S.01126

INSTRUCTIONS:

1) FOR D412-742-011/-013 SKIDTUBES @ CHANGE 006 AND SUBSEQUENT, UPDATE THE PARTS LIST TO MODIFY THE BOLT USED TO ATTACH THE GHW LUG AS FOLLOWS:

5.1 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List 32.15 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

ITEM	Qty -011	Qty -041	Qty -015	PART NUMBER	DESCRIPTION
	X			D412-742-011	FLOAT SKIDTUBE INSTALLATION
	1	х		D412-742-041	FLOAT SKIDTUBE
	1		х	D412-742-015	ELECTRIC STEP KIT
			1		

IS:

	63	4		AN4C47A	BOLT
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WAS:

	1									
			<u> </u>							
63	4		AN4C46A	BOLT						

5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List 32.16 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

	ITEM	Qty -013	Qty 043	PART NUMBER	DESCRIPTION					
. [X		D412-742-013	FLOAT SKIDTUBE INSTALLATION					
		1	X	D412-742-043	FLOAT SKIDTUBE					

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•	63	(4	AN4C47A		BOLT
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WAS:

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63	4	AN4C46A		BOLT
			A	

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ţ	REV.			DESCRIPTION	BY	DATE			
	DESIGN		AJS	DART AEROSP	ACE US	A. INC			
	DRAWN		AJS	PORT HADLOCK, WA					
	CHECKE	CHECKED		DRAWING NO.		REV. A			
	MFG. AF	PR.	N/A	DSI 9441		SHEET 1 OF 1			
	APPRO\	/ED	MI	TITLE		SCALE			
	DE APPR.		d	BOLT CHANGE		NTS			
	DATE	08.1	2.19	COPYRIGHT © 2008 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL NOT IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR FOREIGN CANDILINGTAETO TO ANY OTHER PERSON WITHOUT					

W/O:			W	ORK ORDER CHANG	ES										
DATE	STEP	PRO	OCEDURE CH	ANGE	В	y	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
	! !														
									-						
Part No	:	PAR #:	PAR #: Fault Category:						NCR: Yes No DQA: Date:						
				Disposition: QA: N/C Closed: Date: _											
NCR:			WORK ORD	DER NON-CONFORMA	NCE (N	ICR)				W					
DATE	STEP	Description of NC	Corrective Action Section B			Verification / /			Approval	Approval					
DAIL	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		Section C		Chief Eng	QC Inspector					
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